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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/832,959	04/12/2001	Moungi G. Bawendi	01997-273003	2525	
26161 75	90 09/25/2003				
FISH & RICHARDSON PC			EXAMINER		
225 FRANKLIN ST			CHIN, CHRISTOPHER L		
BOSTON, MA	02110				
			ART UNIT	PAPER NUMBER	
			1641	-	
			DATE MAILED: 09/25/2003	1	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No. 09/832,959

Applicant(s)

Bawendi et al

Examiner

Chris Chin

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	The MAILING DATE of this communication appears of	n the cover sh	eet with the	correspondence address			
Period f	or Reply	TO EVEIDE	2 N	IONTH(S) FROM			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.							
- Extens	ions of time may be available under the provisions of 37 CFR 1.136 (a).	no event, howeve	or, may a reply be	timely filed after SIX (6) MONTHS from the			
mailing	date of this communication.	the statutory minin	num of thirty (30)	days will be considered timely.			
. If NO r	period for reply is specified above, the maximum statutory period will apply to reply within the set or extended period for reply will, by statute, cause	and will expire SIX	((6) MONTHS fro	m the mailing date of this communication.			
- Any re	ply received by the Office later than three months after the mailing date of	f this communication	on, even if timely	filed, may reduce any			
_	patent term adjustment. See 37 CFR 1.704(b).						
Status 1) 💢	Responsive to communication(s) filed on Jul 16, 20	03					
2a) 🗆	This action is FINAL . 2b) 💢 This action		l .				
3) 🗆	The following state of the marks is						
·	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213.						
	tion of Claims						
4) 💢	Claim(s) 69-77, 96-114, and 118-133			is/are pending in the application.			
4	a) Of the above, claim(s) <u>97, 100, 102, 103, 105-1</u>	08, 118, 12	<u>0, 121, 123</u>	is/are withdrawn from consideratio			
5) 🗆	Claim(s)			is/are allowed.			
6) 💢	Claim(s) 69-77, 96, 101, 104, 109-114, 119, 122	, and 127-13	0	is/are rejected.			
7) 💢	Claim(s) <u>98, 99, 132, and 133</u>			is/are objected to.			
8) 🗆	Claims		are subject	to restriction and/or election requirement			
Applica	ation Papers						
9) 🗆	The specification is objected to by the Examiner.						
10)	The drawing(s) filed on is/are a accepted or b objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)□	The proposed drawing correction filed on		is: a) app	proved by disapproved by the Examine			
•	If approved, corrected drawings are required in reply t						
12)							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)[☐ All b) ☐ Some* c) ☐ None of:						
	1. Certified copies of the priority documents have	e been receiv	ed.				
	2. Certified copies of the priority documents have been received in Application No.						
	3. Copies of the certified copies of the priority do application from the International Burea	au (PCT Rule	1 /.2(a)).				
*5	See the attached detailed Office action for a list of the						
14)	Acknowledgement is made of a claim for domestic	priority under	35 U.S.C.	§ 119(e).			
a) \square The translation of the foreign language provisional application has been received.							
15)□	Acknowledgement is made of a claim for domestic	priority under	35 U.S.C.	§§ 120 and/or 121.			
Attachn							
_	otice of References Cited (PTO-892)	- —		(3) Paper No(s)			
- —	otice of Draftsperson's Patent Drawing Review (PTO-948)	ntormal Patent A	oplication (PTO-152)				
3) 🔲 lr	nformation Disclosure Statement(s) (PTO-1449) Paper No(s).	6) Other:					

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DETAILED ACTION

Election/Restriction

1. Applicant's election without traverse of noncovalent interactions between the biological moiety and compositions in which the noncovalent interaction is a hydrophilic interaction and the biological moiety is protein, peptide or antibody (claims 69-77, 96, 98, 99, 101, 104, 109-114, 119, 122, 127-130, 132, and 133) in Paper No. 10 is acknowledged.

Claim Rejections - 35 U.S.C. § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in-
- (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or
- (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).
- 3. Claims 69-77, 96, 101, 104, 109-114, 119, 122, and 127-130 are rejected under 35 U.S.C. 102(e) as being anticipated by Weiss et al (U.S. Patent 5,990,479) or Weiss et al (U.S. Patent 6,423,551) for the reasons of record.

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In response to this rejection, Applicants argue that neither of the Weiss et al references teach a nanocrystal with a quantum yield of greater than 10% in water.

Applicant's argument has been considered but is not convincing. While neither of the Weiss et al references explicitly teach that their nanocrystals exhibit a quantum yield greater than 10% in water, such properties are inherent to the nanocrystal of Weiss et al since they are made by the same materials as those taught in the instant specification. Example 3 on page 31 of the instant specification teaches a nanocrystal with a core of CdSe and shell of ZnS. Both Weiss et al references teach a nanocrystal composed of the same materials and thus should have the same properties as the nanocrystals used in the instant invention, i.e. a quantum yield greater than 10% in water.

Allowable Subject Matter

4. Claims 98, 99, 132, and 133 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chris Chin whose telephone number is (703) 308-3991. The examiner can

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normally be reached on Monday-Thursday from 10:00 am to 7:30 pm. The examiner can also be reached on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Long Le, can be reached on (703) 305-3399.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0196.

cchin/cc

September 22, 2003

CHRISTOPHER L. CHIN PRIMARY EXAMINER

GROUP 1800/49/

Christyl L. Chi